

## Abstract

The device according to the present invention is used to determine the state, in particular the permeability, of a particle filter.

To this end, the device has an acoustic source (1) for transmitting an acoustic signal  
5 (1.1) toward the particle filter (3) and has an acoustic receiver (2) for receiving the acoustic  
signal (1.2) that has been changed by the particle filter (3). In addition, a control and  
evaluation unit (4) is provided for controlling the acoustic source (1) and evaluating the  
received acoustic signal (1.2).

(Fig. 1)